Patent Number(s): JP55149320-A
Title: Mfr. of polyester contg. no insoluble catalyst contaminants - using glycol soluble molybdenum, antimony titanium, tin, germanium and zinc cpds. as catalysts
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Abstract:

Process comprises using glycol soluble cpds. at least 1 of antimony, titanium, germanium, tin, zinc as catalyst and also 0.1-10 micro moles/ mol of monomer acid a glycol soluble molybdenum cpd. The dicarboxylic acid is mainly terephthalic and the glycol mainly ethylene glycol.The glycol soluble cpds. are e.g. antimony trioxide, antimony trichloride, titanium tetramethoxide, titanium tetraethoxide, germanium, tetra-ethoxide, germanium tetra-n-butoxide, di-n-butyl tin dichloride, tri-n-butyl tin acetate, zinc formate, zinc acetate, etc. The glycol soluble molybdenum cpd. is e.g. molybdic acid, lithium molybdate, etc.

The rate of reaction is increased considerably as if a large amt. of conventional catalyst had been used. Polymer with good quality is obtd., contg. almost no insoluble catalyst deposits.

International Patent Classification: C08G-063/34
Derwent Class: A23 (Polyamides, polyesters, polycarbonates, alkyds)
Derwent Manual Code(s): A02-A06; A02-A07; A05-E01A
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